

UNITED STATES PATENT APPLICATION  
COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: AUTOMATED REAPPLICATION OF ATRIAL PACING THERAPIES

The specification of which

☐ is attached hereto

☒ was filed on December 20, 2001, under application serial no. 10/034,060, which I have reviewed and for which I solicit a United States patent.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).<sup>1</sup>

I hereby claim foreign priority benefits under Title 35, United States Code, §119/365 of any foreign application(s) for patent of inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

☒ no such applications have been filed.

☐ such applications have been filed as follows:

## FOREIGN APPLICATION(S), IF ANY, CLAIMING PRIORITY UNDER 35 USC §119

| COUNTRY | APPLICATION NUMBER | DATE OF FILING | DATE OF ISSUE |
|---------|--------------------|----------------|---------------|
|         |                    |                |               |
|         |                    |                |               |

## ALL FOREIGN APPLICATIONS, IF ANY, FILED BEFORE THE PRIORITY APPLICATION(S)

| COUNTRY | APPLICATION NUMBER | DATE OF FILING | DATE OF ISSUE |
|---------|--------------------|----------------|---------------|
|         |                    |                |               |
|         |                    |                |               |

I hereby claim the benefit under Title 35, United States Code, §120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §156(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. APPLICATION NUMBER | DATE OF FILING | STATUS (patented, pending, abandoned) |
|-------------------------|----------------|---------------------------------------|
|                         |                |                                       |
|                         |                |                                       |

<sup>1</sup> § 1.56 Duty of disclosure; fraud, striking or rejection of applications.

(a) A duty of candor and good faith toward the Patent and Trademark Office rests on the inventor, on each attorney or agent who prepares or prosecutes the application and on every other individual who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application. All such individuals have a duty to disclose to the Office information they are aware of which is material to the examination of the application. Such information is material where there is substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent. The duty is commensurate with the degree of involvement in the preparation or prosecution of the application.

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Stephen W. Bauer  
Thomas G. Berry  
Kenneth J. Collier  
Curtis D. Kinghorn  
Daniel W. Latham  
Beth L. McMahon

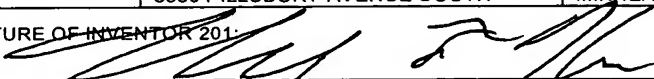
Reg. No. 32,192  
Reg. No. 31,736  
Reg. No. 34,982  
Reg. No. 33,926  
Reg. No. 30,401  
Reg. No. 41,987

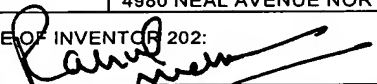
Harold R. Patton  
Michael C. Soldner  
Eric R. Waldkoetter  
Girma Wolde-Michael  
Thomas F. Woods

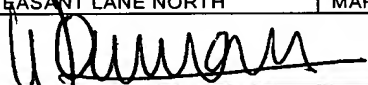
Reg. No. 22,157  
Reg. No. 41,455  
Reg. No. 36,713  
Reg. No. 30,724  
Reg. No. 36,726

Please direct all correspondence in this case to: Girma Wolde-Michael.

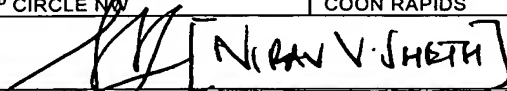
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


|  |                         |  |                                       |   |
|--|-------------------------|--|---------------------------------------|---|
| 2<br>0<br>1  | Full Name of Inventor   | FIRST NAME<br>MICHAEL                              | MIDDLE INITIAL<br>F.                  | LAST NAME<br>HESS                       |
|  | Residence & Citizenship | CITY<br>MINNEAPOLIS                                | STATE OR FOREIGN COUNTRY<br>MINNESOTA | COUNTRY of CITIZENSHIP<br>US            |
|  | Post Office Address     | POST OFFICE ADDRESS<br>3836 PILLSBURY AVENUE SOUTH | CITY<br>MINNEAPOLIS                   | STATE/ZIP/COUNTRY<br>MINNESOTA/55409/US |
| SIGNATURE OF INVENTOR 201:  |                         |  |                                       | DATE: 4-09-02                           |

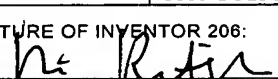
|  |                         |   |                                       |  |
|--|-------------------------|---|---------------------------------------|--|
| 2<br>0<br>2  | Full Name of Inventor   | FIRST NAME<br>RAHUL                           | MIDDLE INITIAL                        | LAST NAME<br>MEHRA                           |
|  | Residence & Citizenship | CITY<br>STILLWATER                            | STATE OR FOREIGN COUNTRY<br>MINNESOTA | COUNTRY of CITIZENSHIP<br>US                 |
|  | Post Office Address     | POST OFFICE ADDRESS<br>4980 NEAL AVENUE NORTH | CITY<br>STILLWATER                    | STATE/ZIP/COUNTRY<br>MINNESOTA/55082-1071/US |
| SIGNATURE OF INVENTOR 202:  |                         |   |                                       | DATE: 5-21-2002                              |

|  |                         |  |                                       |   |
|--|-------------------------|--|---------------------------------------|---|
| 2<br>0<br>3  | Full Name of Inventor   | FIRST NAME<br>EDUARDO                            | MIDDLE INITIAL<br>N.                  | LAST NAME<br>WARMAN                     |
|  | Residence & Citizenship | CITY<br>MAPLE GROVE                              | STATE OR FOREIGN COUNTRY<br>MINNESOTA | COUNTRY of CITIZENSHIP<br>US            |
|  | Post Office Address     | POST OFFICE ADDRESS<br>10949 PHEASANT LANE NORTH | CITY<br>MAPLE GROVE                   | STATE/ZIP/COUNTRY<br>MINNESOTA/55369/US |
| SIGNATURE OF INVENTOR 203:  |                         |  |                                       | DATE: 5-21-02                           |

\_\_\_ This is the final page of this declaration

|  |                         |   |                                       |   |
|--|-------------------------|---|---------------------------------------|---|
| 2  | Full Name of Inventor   | FIRST NAME<br>NIRAV                                     | MIDDLE INITIAL<br>V.                  | LAST NAME<br>SHETH                      |
| 0  | Residence & Citizenship | CITY<br>COON RAPIDS                                     | STATE OR FOREIGN COUNTRY<br>MINNESOTA | COUNTRY of CITIZENSHIP<br>US            |
| 4  | Post Office Address     | POST OFFICE ADDRESS<br>3347 132 <sup>ND</sup> CIRCLE NW | CITY<br>COON RAPIDS                   | STATE/ZIP/COUNTRY<br>MINNESOTA/55448/US |
| SIGNATURE OF INVENTOR 204:  |                         |   |                                       | DATE: 5/1/02                            |

|  |                         |  |                                       |   |
|--|-------------------------|--|---------------------------------------|---|
| 2  | Full Name of Inventor   | FIRST NAME<br>MARK                     | MIDDLE INITIAL<br>L.                  | LAST NAME<br>BROWN                      |
| 0  | Residence & Citizenship | CITY<br>NORTH OAKS                     | STATE OR FOREIGN COUNTRY<br>MINNESOTA | COUNTRY of CITIZENSHIP<br>US            |
| 5  | Post Office Address     | POST OFFICE ADDRESS<br>10 BUFFALO ROAD | CITY<br>NORTH OAKS                    | STATE/ZIP/COUNTRY<br>MINNESOTA/55127/US |
| SIGNATURE OF INVENTOR 205:  |                         |  |                                       | DATE: 4/9/02                            |

|  |                         |  |                                       |   |
|--|-------------------------|--|---------------------------------------|---|
| 2  | Full Name of Inventor   | FIRST NAME<br>DAVID                            | MIDDLE INITIAL<br>E                   | LAST NAME<br>RITSCHER                   |
| 0  | Residence & Citizenship | CITY<br>GOLDEN VALLEY                          | STATE OR FOREIGN COUNTRY<br>MINNESOTA | COUNTRY of CITIZENSHIP<br>US            |
| 6  | Post Office Address     | POST OFFICE ADDRESS<br>8300 GOLDEN VALLEY ROAD | CITY<br>GOLDEN VALLEY                 | STATE/ZIP/COUNTRY<br>MINNESOTA/55427/US |
| SIGNATURE OF INVENTOR 206:  |                         |  |                                       | DATE: 4/11/02                           |

☒ This is the final page of this declaration

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ASSIGNMENT RECORDATION FORM COVER SHEET  
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael F. Hess  
Rahul Mehra  
Eduardo N. Warman  
Nirav V. Sheth  
Mark L. Brown  
David Ritscher

2. Name and address of receiving party(ies):

Name: MEDTRONIC, INC..  
Internal Address: M.S. LC 340  
Street Address: 710 Medtronic Parkway  
City: MINNEAPOLIS State: MN Zip: 55432

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

3. Nature of conveyance:

[X] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other \_\_\_\_\_

Execution Date: April 9, 2002 Michael F. Hess, Mark L. Brown  
May 21, 2002 Rahul Mehra, Eduardo N. Warman  
May 1, 2002 Nirav V. Sheth  
April 11, 2002 David Ritscher

Additional name(s) & address(es) attached? [ ] Yes [X] No

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OFFICE OF PETITIONS

4. Application number(s) or patent number(s): 10/034,060

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name Girma Wolde-Michael  
Address: MEDTRONIC, INC.  
710 Medtronic Parkway  
M.S. LC 340  
Minneapolis, Minnesota 55432

6. Total number of applications and patents involved:..... 1

7. Total fee (37 CFR 3.41):.....\$40.00

[ ] Enclosed  
[X] Authorized to be charged to deposit account

8. Deposit Account Number: 13-2546  
(Attach duplicate copy of this page)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Girma Wolde-Michael Reg. 36,724  
Name of Person Signing

*Girma Wolde-Michael*  
Signature

05/22/02  
Date

Total number of pages including cover sheet, attachments and document: 7

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of information systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), 1Washington, D.C. 20503.

## **ASSIGNMENT**

WHEREAS, WE, Michael F. Hess, Rahul Mehra, Eduardo N. Warman, Nirav V. Sheth, Mark L. Brown and David Ritscher, are the inventors of AUTOMATED REAPPLICATION OF ATRIAL PACING THERAPIES for which we have executed an application for filing in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States on April 9, 2002, therefor; and

WHEREAS, MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5640, hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor including our rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and behoof and use and behoof of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned; and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue or extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

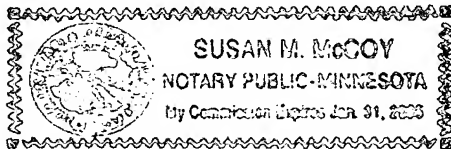
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

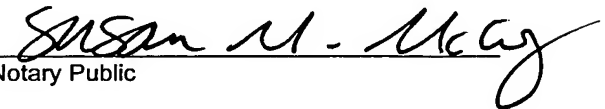
IN WITNESS WHEREOF, I have hereunto set my hand on this 9<sup>th</sup> day of April, 2002.

  
Michael F. Hess

On this 9<sup>th</sup> day of April, 2002, before me personally appeared Michael F. Hess, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

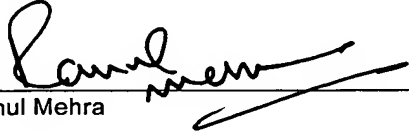
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



  
Notary Public

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 21 day of May, 2002.

  
Rahul Mehra

On this 21 day of May, 2002, before me personally appeared Rahul Mehra, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



  
Notary Public

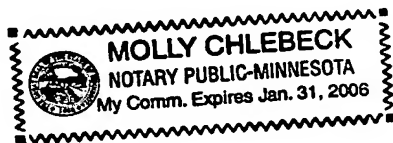
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 5-21-02 day of \_\_\_\_\_, 2002.

  
\_\_\_\_\_  
Eduardo N. Warman

On this 21st day of May, 2002, before me personally appeared Eduardo N. Warman, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

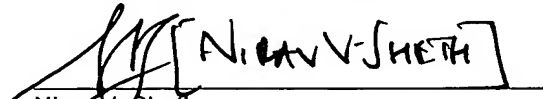


  
\_\_\_\_\_  
Notary Public



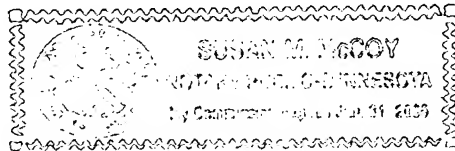
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 1st day of May, 2002.

  
Nirav V. Sheth

On this 1st day of May, 2002, before me personally appeared Nirav V. Sheth, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



  
Notary Public

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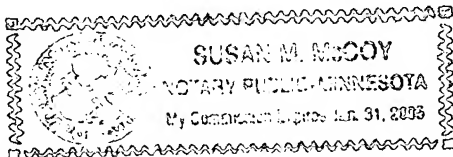
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 9th day of April, 2002.

Mark L. Brown  
Mark L. Brown

On this 9th day of April, 2002, before me personally appeared Mark L. Brown, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Susan M. McCoy  
Notary Public

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

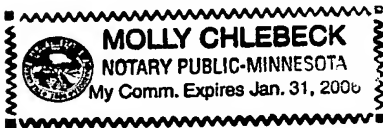
IN WITNESS WHEREOF, I have hereunto set my hand on this 11<sup>th</sup> day of April, 2002.

David Ritscher  
David Ritscher

On this 11<sup>th</sup> day of April, 2002, before me personally appeared David Ritscher, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Molly Chlebeck  
Notary Public



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Hess et al.

Attorney Docket No.: P-8998

Serial No.: 10/034,060

Filed: December 20, 2001

Title: AUTOMATED REAPPLICATION OF ATRIAL PACING THERAPIES

COMMUNICATION FROM ASSIGNEE

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Commissioner of Patents  
Washington, D.C. 20231

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Dear Sir:

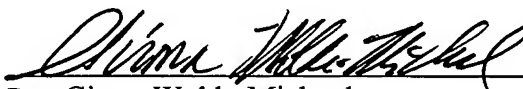
Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a place of business at 710 Medtronic Parkway, Minneapolis, Minnesota 55432, represents that it is the assignee of rights in U.S. Serial No. 10/034,060, filed December 20, 2001, and entitled AUTOMATED REAPPLICATION OF ATRIAL PACING THERAPIES.

Medtronic, Inc. hereby consents to the addition of David Ritscher as an inventor of the above-identified application.

Attached hereto is a copy of the executed assignment document for the subject application, which was submitted to the U.S. Patent and Trademark Office for recordation on February 18, 2002.

I hereby declare that I am authorized to act on behalf of the assignee, that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date:

05/22/02

By: Girma Wolde-Michael

Title: Senior Patent Attorney

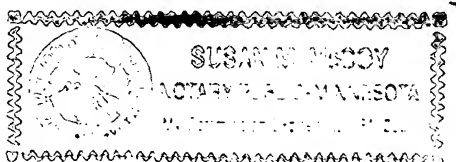
STATE OF MINNESOTA

ss.

COUNTY OF ANOKA

On this 22nd day of May, 2002, before me personally appeared Girma Wolde-Michael, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

  
Notary Public

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL

In re Application of: Hess et al.  
For: AUTOMATED REAPPLICATION OF ATRIAL PACING THERAPIES  
Serial No.: 10/034,060  
Filed: December 20, 2001

**CERTIFICATE OF MAILING UNDER 37 CFR 1.8:** I hereby certify that this TRANSMITTAL and the paper(s), as described herein, are being deposited in the U.S. Postal Service, as first class mail, addressed to U.S. Patent and Trademark Office, Assignment Division, Washington, D.C. 20231 on this 19th day of February, 2002.

Signature Sue McCoy  
Sue McCoy  
Printed Name

Commissioner for Patents  
Washington, D.C. 20231  
Attn: Box Assignment

Sir:

We are transmitting herewith the attached:

- X Assignment
- X Assignment Cover Sheet
- X Return Postcard

☐ Applicant hereby petitions for a \_\_\_\_\_ month(s) extension of time. If an additional extension of time is required, please consider this a petition therefor.

X Please charge Deposit Account 13-2546 \$40 for Assignment Recordal Fee for a Total of \$40.00.

X Applicant believes that no extension of term is required. However, if an extension of time is required, please consider this a petition therefor to provide for the possibility that applicant has inadvertently overlooked the need for an extension of time and charge same to Deposit Account 13-2546.

02/18/02  
Date

Girma Wolde-Michael  
Atty: Girma Wolde-Michael  
Reg. No. 36,724  
MEDTRONIC, INC.  
710 Medtronic Parkway N.E.  
Minneapolis, Minnesota 55432-5604  
Telephone: (763) 514-6402

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ASSIGNMENT RECORDATION FORM COVER SHEET  
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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael F. Hess  
Rahul Mehra  
Eduardo N. Warman  
Nirav V. Sheth  
Mark L. Brown

2. Name and address of receiving party(ies):

Name: MEDTRONIC, INC..  
Internal Address: M.S. LC 340  
Street Address: 710 Medtronic Parkway  
City: MINNEAPOLIS State: MN Zip: 55432

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

3. Nature of conveyance:

[X] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other \_\_\_\_\_

Execution Date: January 24, 2002 Michael F. Hess  
February 8, 2002 Rahul Mehra  
January 25, 2002 Eduardo N. Warman  
January 25, 2002 Nirav V. Sheth  
December 19, 2001 Mark L. Brown

Additional name(s) & address(es) attached? [ ] Yes [X] No

4. Application number(s) or patent number(s): 10/034,060

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Girma Wolde-Michael  
Address: MEDTRONIC, INC.  
710 Medtronic Parkway  
M.S. LC 340  
Minneapolis, Minnesota 55432

6. Total number of applications and patents involved: ..... 1

7. Total fee (37 CFR 3.41): ..... \$40.00

[ ] Enclosed  
[X] Authorized to be charged to deposit account

8. Deposit Account Number: 13-2546  
(Attach duplicate copy of this page)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Girma Wolde-Michael Reg. 36,724  
Name of Person Signing

  
Signature

02/18/02  
Date

Total number of pages including cover sheet, attachments and document: 7

OMB No. 0651-0011 (exp. 4/94)

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Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

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## **ASSIGNMENT**

WHEREAS, WE, Michael F. Hess, Rahul Mehra, Eduardo N. Warman, Nirav V. Sheth and Mark L. Brown, are the inventors of AUTOMATED REAPPLICATION OF ATRIAL PACING THERAPIES for which we have executed an application for filing in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States on December 19, 2001, therefor; and

WHEREAS, MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5640, hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor including our rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and behoof and use and behoof of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

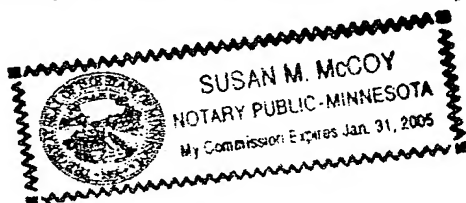
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.


IN WITNESS WHEREOF, I have hereunto set my hand on this 27 day of January, 2002.

  
Michael F. Hess

On this 27<sup>th</sup> day of January, 2002, before me personally appeared Michael F. Hess, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



  
Notary Public

RECEIVED  
JUN 05 2002  
OFFICE OF PETITIONS



I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 8<sup>th</sup> day of February, 2002.

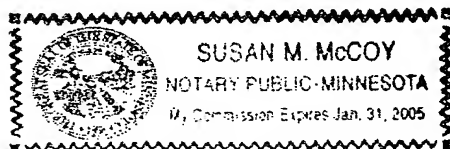
Rahul Mehra  
Rahul Mehra

On this 8<sup>th</sup> day of February, 2002, before me personally appeared Rahul Mehra, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Susan M. McCoy  
SUSAN M. MCCOY  
NOTARY PUBLIC-MINNESOTA  
My Commission Expires Jan. 31, 2005

Susan M. McCoy  
Notary Public



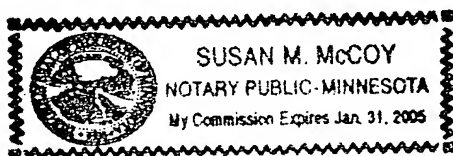
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.


IN WITNESS WHEREOF, I have hereunto set my hand on this 25 day of January, 2002.

  
Eduardo N. Warman

On this 25<sup>th</sup> day of January, 2002, before me personally appeared Eduardo N. Warman, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.




  
Notary Public

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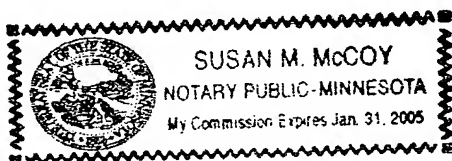
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

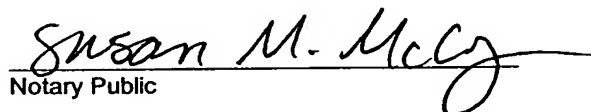
IN WITNESS WHEREOF, I have hereunto set my hand on this 25<sup>th</sup> day of January, 2002.

 [NIRAV V. SHETH]  
Nirav V. Sheth

On this 25<sup>th</sup> day of January, 2002, before me personally appeared Nirav V. Sheth, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



  
Notary Public

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 19<sup>th</sup> day of December, 2001.

Mark L. Brown  
Mark L. Brown

On this 19<sup>th</sup> day of December, 2001, before me personally appeared Mark L. Brown, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Susan M. McCoy  
Notary Public

The "RECEIVED" stamp of the United States Patent and Trademark Office imprinted hereon acknowledges receipt of:

X Transmittal  
X Assignment  
X Assignment Cover Sheet

In re Application of: Hess et al.  
For: AUTOMATED REAPPLICATION OF ATRIAL PACING  
THERAPIES  
Serial No.: 10/034,060  
Filed: December 20, 2001

DOCKET: P-8998  
GWM/sm

Mailed: Feb. 19, 2002